

**IN THE CLAIMS:**

These claims will replace all prior versions of claims in the present application.

Claim 1 (Cancelled)

2. (Currently Amended) A method for manufacturing a supercharger rotor by casting a profile portion [(21a)] of a supercharger rotor [(2)] and a shaft [(22)] penetrating the same, comprising the steps of:

(((D))A) first processing a left and right helical cross portion [(23)] on a surface of the shaft connected to the profile portion; and

(((E))B) casting the profile portion [(21a)] around the shaft in die-casting.

3. (Currently Amended) A method according to claim 2, wherein the left and right helical cross portion [(23)] includes a right handed screw helical groove, and a left handed screw helical groove, and these grooves are caused to cross each other.

Claims 4 and 5 (Cancelled)